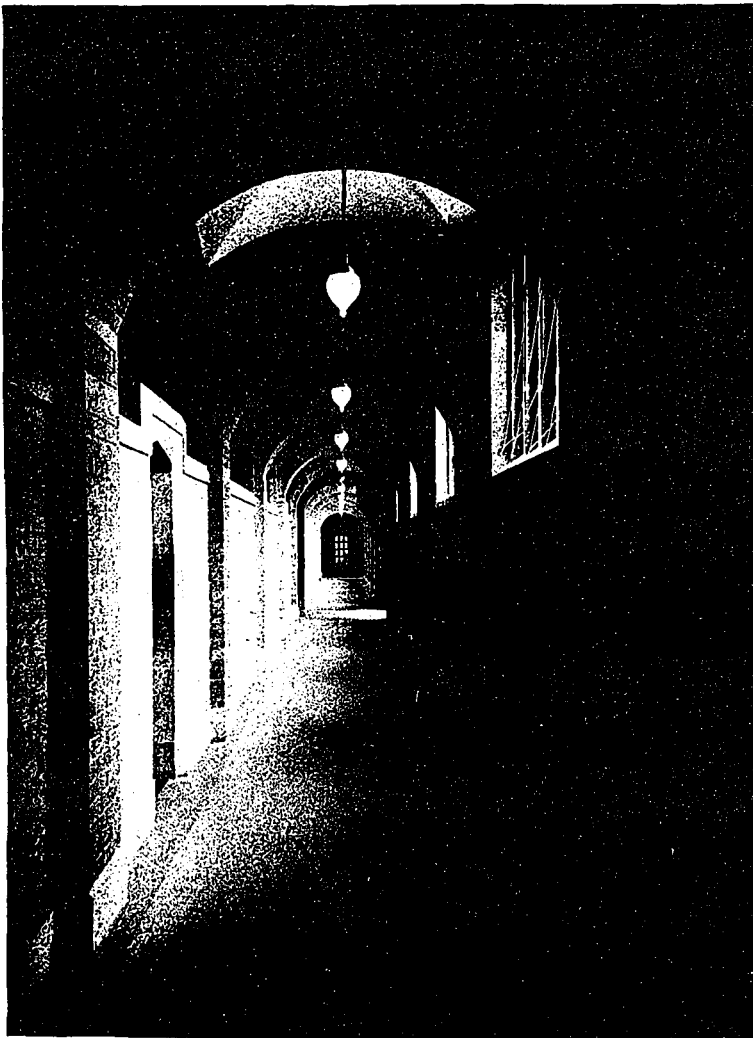




THEATRE VIEW.

VENTILATION.

The problem of furnishing an adequate supply of fresh air, and the constant removal of foul air was one which received the most care-



GYMNASIUM CORRIDOR.

ful consideration, and which resulted in the installation of a ventilating and air conditioning equipment remarkable for its completeness and efficiency in operation.

There are three individual supply units located in a central fan room, one for the swimming pool, one for the theatre and one for the dining hall. The theatre and dining hall supply units are identical as to equipment, although varying slightly in size, each consisting of a special width, full housed, multiblade fan direct connected to electric motor. These fans draw

air from out of doors, first through a series of steam coils to temper the air, then through an air washer where by a series of sprays and metal eliminator plates all dirt and dust is removed, and finally through a second series of steam coils where it is heated to the desired temperature and discharged through a system of metal ducts to outlets located in the various rooms.

By an ingenious device in the air washer the humidity of the air supply to the building is maintained at a constant point, regardless of the humidity of the outside atmosphere.

The swimming pool supply unit is designed along similar lines to these with the exception that the air washing apparatus is eliminated.

A special feature of the equipment for the theatre is that the fresh air is supplied through outlets located under the seats and in the aisles and drawn off from the upper portions of the room, the current of the air always being in an upward direction. This eliminates the feeling of a draft sometimes present in a well ventilated room in which the current of air is from the back to the front.

To exhaust foul air, smoke, and kitchen odors, six ventilating units have been installed, individual units exhausting from the swimming pool, the theatre, the billiard room, dining room, kitchen and the servery at a combined rate of seventy-five thousand cubic feet per minute. These units are all designed along similar lines although